



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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7-14-03

Applicants: L.R. Dalton et al.

Attorney Docket No.: UOFW117403

Application No.: 09/912,444

Group Art Unit: 2874

Filed: July 24, 2001

Examiner: --

Title: HYPERPOLARIZABLE ORGANIC CHROMOPHORES

**PRELIMINARY AMENDMENT**

Seattle, Washington 98101

February 28, 2002

TO THE COMMISSIONER FOR PATENTS:

Prior to examination, please amend the above-identified application as indicated below.

In the Specification:

Please amend the paragraph on page 40, beginning at line 15, as follows:

The electro-optic coefficient (picometers/volt, pm/V, at 1.3 microns),  $r_{33}$ , as a function of chromophore loading (weight percent) was determined as described above for a corresponding chromophore having a tricyanofuran acceptor in amorphous polycarbonate. The results are illustrated in FIGURE 18. Referring to FIGURE 18, the greatest electro-optic coefficient (66 pm/V) was measured at 30 weight percent chromophore and electro-optic coefficients of 64 pm/V were achieved for loadings of 28 and 35 weight percent chromophore. Electro-optic coefficients of 47 and 57 pm/V were achieved at 20 and 30 weight percent chromophore, respectively.

In the Claims:

Please cancel Claims 1-8.

Add Claims 9-64 as follows:

9. (New) A compound, comprising a  $\pi$ -electron donor conjugated to a  $\pi$ -electron acceptor through a  $\pi$ -conjugated polyene bridge, the compound having an electro-optic coefficient of at least about 50 pm/V measured at 1.3 or 1.55  $\mu$ m in polymethylmethacrylate with